KENWOOD

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KDC-4050LG

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COMPACT disc DIGITAL AUDIO

CD-RECEIVER
INSTRUCTION MANUAL
AMPLI-TUNER LECTEUR DE CD
MODE D'EMPLOI
CD- RECEIVER
BEDIENUNGSANLEITUNG
CD RECEIVER
GEBRUIKSAANWIJZING
SINTOLETTORE STEREO COMPACT DISC
ISTRUZIONI PER L'USO

KENWOOD CORPORATION

©B64-0867-00 (EW)

English

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Safety precautions

⚠WARNING

To prevent injury and/or fire, take the following precautions:

- Insert the unit all the way until it is fully locked in place. Otherwise it may fly out of place during collisions and other jolts.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm² (AWG18) or more to prevent cable deterioration and damage to the cable coating.
- To prevent short circuits, never put or leave any metallic objects (e.g., coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Be careful not to drop the unit or subject it to strong shock.

  The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.

  If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

⚠CAUTION

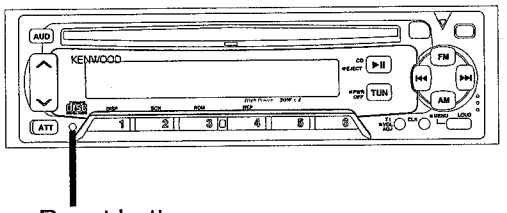
To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.

Safety precautions

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.



Reset button

Cleaning the Unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

⚠CAUTION

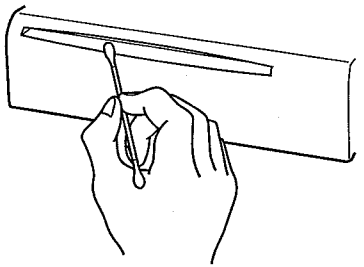
Do not wipe the panel with a stiff cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

Cleaning the CD Slot

As dust can accumulate in the CD slot, clean it occasionally. Your CDs can get scratched if you put them in a dusty CD slot.



Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a whilst, consult your Kenwood dealer.

The marking of products using lasers (Except for some areas)

CLASS 1
LASER PRODUCT

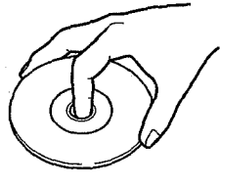
The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Handling Compact discs

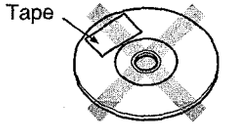
Playing a CD that is dirty, scratched or warped can cause the sound to skip and the unit to operate incorrectly, resulting in worsened sound quality. Take the following precautions to prevent your CDs from getting scratched or damaged.

Handling CDs

- Do not touch the recorded side of the CD (i.e., the side opposite the label) when holding it.



- Do not stick tape on either side of the CD.

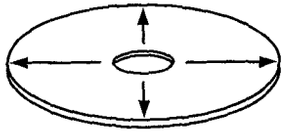


Storing CDs

- Do not store CDs in areas exposed to direct sunlight – such as a car seat or above the fascia panel (dashboard) – or other hot places.
- Remove CDs from the unit when not listening to them for a whilst, and put them back in their cases. Do not stack CDs that have been removed from their cases or prop them against something.

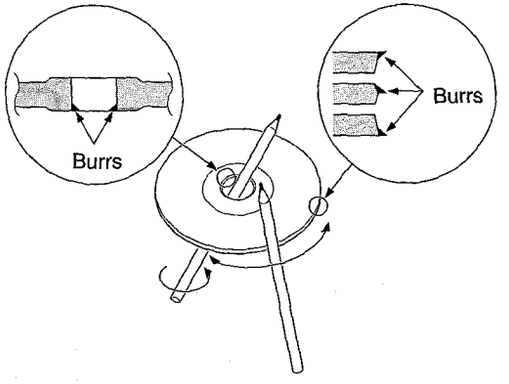
Cleaning CDs

If a CD has become dirty, wipe it off gently using a commercially available cleaning cloth or a soft cotton cloth, starting from the centre of the disc and moving outward. Do not clean CDs with conventional record cleaners, anti- static formulas, or chemicals such as paint thinner or benzene.



Checking New CDs for Burrs

When playing a new CD for the first time, check that there are not any burrs stuck to the perimeter of the disc or in the central hole. CDs with burrs stuck on them may not load properly or may skip whilst playing. Remove burrs using a ballpoint pen or a similar utensil.

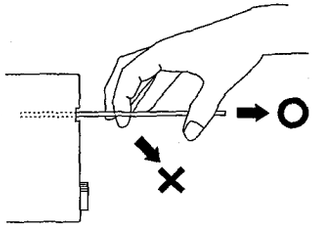


Do Not Load CD Accessories in Slot

Do not use commercially available CD accessories that can be loaded into the CD slot, such as stabilisers, protective sheets, or CD cleaning discs, since they can cause the unit to malfunction.

Removing the CD

Only remove the CD from the machine in a horizontal direction. You may damage the surface of the CD if you try pulling it down as it ejects.



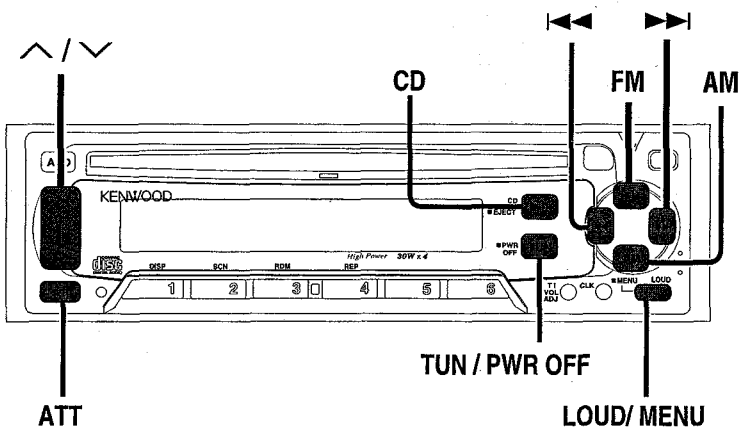
⚠CAUTION

Do Not Load 8-cm (3-in.) CDs in the CD slot

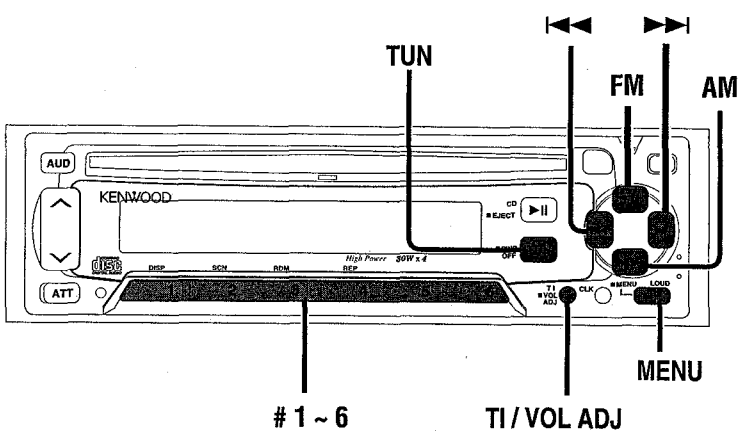
If you try to load an 8-cm CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

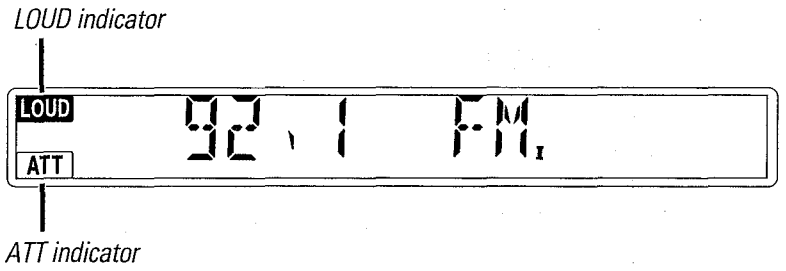
Buttons and Display

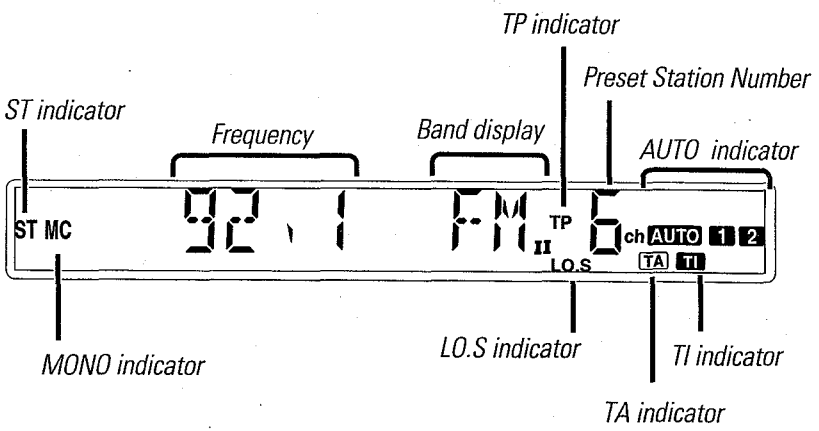
Basic operations



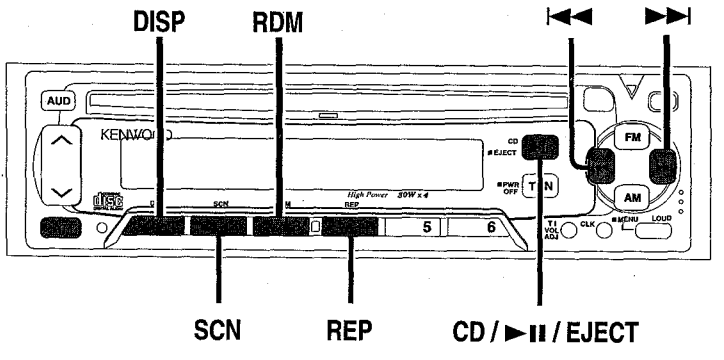
Tuner features



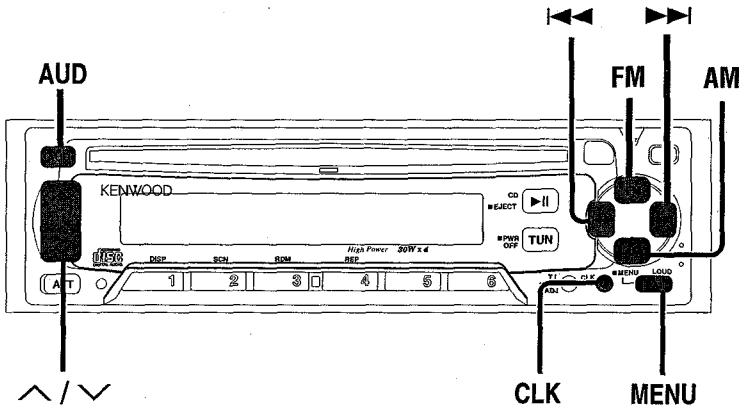


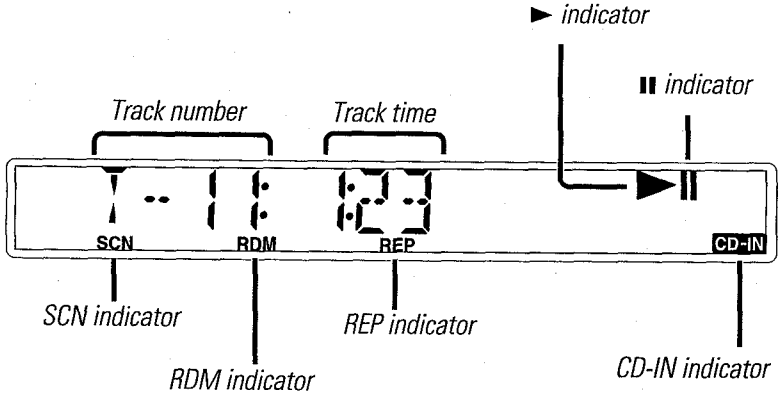


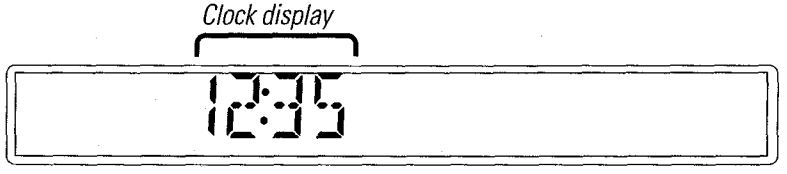
CD player features



Other features







Basic operations *(See page 6)*

Power

Turning on the power:
Press either the CD or TUN button.

NOTE

Turn the power on before completing the following procedures.

Turning off the power:
Hold down the PWR OFF button for one second or more.

Volume

Increasing Volume:
Press the ∧ button to turn up the volume.

Decreasing Volume:
Press the ∨ button to turn down the volume.

Attenuator

This function allows you to turn down the volume quickly.

Turning Attenuator On/Off:
Press the ATT button to switch the attenuator on and off.
When the attenuator is on, the ATT indicator blinks.
When the attenuator is off, the volume returns to the original level.

NOTE

Turning down the volume all the way turns off the attenuator function.

Loudness

This function amplifies low and high tones when the volume is turned down.
The LOUD indicator lights up, when the loudness function is on.

Turning Loudness On/Off:
Press the LOUD button to switch the loudness on and off.

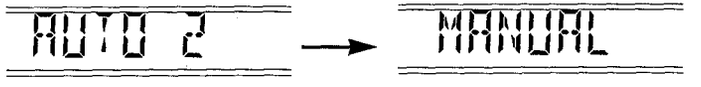
Menu System

To accommodate a greater number of functions, a menu system has been employed for making settings. Press the MENU button to enter the menu mode and then display the function to make the setting. Details on each setting are explained separately in the corresponding function page.

1 Hold down the MENU button for one second or more.
"MENU" is displayed when the menu mode is entered.
The function that you can adjust is indicated with the current settings displayed.

2 ***Selecting function to set***
Press the ▶▶| button to search through the functions until you see the one you want to adjust in the display.
Press the |◀◀ button to search through the functions backward.
Example: If you want to switch the tuning mode from AUTO1 to manual, first search through the functions until you see "AUTO 1" in the display.

3 ***Changing setting for currently displayed function***
Press either the AM or FM button.
The setting will change for each function.
Example: The tuning mode will switch from AUTO 1 to AUTO 2. Pressing the button again switches the setting to manual, and "MANUAL" is displayed.



With the auto memory function, the function will start to activate.

NOTE

To use the auto memory function, hold down either the AM or FM button for two seconds or more.

Function	Varieties of settings for each function (display)
Disabled System Indicator	DSI ON ↔ DSI OFF
Local seek	LO.S ON ↔ LO.S OFF
Selecting Tuning Mode	AUTO1 → AUTO2 → MANUAL
Auto Memory Entry	A-MEMORY (start)
*Auto TP Seek	ATPS ON ↔ ATPS OFF
*Monaural Reception	MONO ON ↔ MONO OFF

4 ***Ending the menu mode***
Press the MENU button.

NOTE

- Make sure to end the menu mode when finished. If you fail to end the menu mode, the Traffic Information function may not operate properly.
- Some tuner functions will not be displayed unless you are currently listening to the tuner.
- Functions marked with an asterisk (*) cannot be used during AM reception.

Tuner features *(See page 6)*

Selecting Tuning Mode

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "Auto1" indicator lights up when auto seek tuning is selected, and the "Auto2" indicator lights when preset station seek tuning is selected.

1 Hold down the MENU button for one second or more.
"MENU" is displayed and the menu mode is turned on.

2 Press the ►►I button repeatedly until the tuning function appears in the display.
Press the I◄◄ button to search in the other direction.
The tuning method is displayed as "AUTO1," "AUTO2," or "MANUAL," referring respectively to auto seek tuning, preset station seek tuning, and manual tuning.

3 ***Switching settings***
Press either the AM button or FM button to switch the tuning mode.
The display and setting will change.

4 Press the MENU button to end the menu mode.

Tuning

1 Press the TUN button to turn the radio on.

2 Press either the FM or AM button to select the band.
Each time you press the FM button, the band switches between the FM1, FM2 and FM3.
Press the AM button to select the MW and LW bands.

3 • Auto Seek Tuning
Press the ►►I button to seek increasing frequencies.
Press the I◄◄ button to seek decreasing frequencies.
• Preset station seek tuning
Press the ►►I button to move to the next preset station (i.e., the one with the next highest number), and the I◄◄ button to move to the last preset station (i.e., the one with the next lowest number).

NOTE

If the frequencies stored at the preset numbers receive stations which were not originally memorized when traveling

Tuner features *(See page 6)*

long distan ces, the preset number is not displayed. In such cases, pressing the ⏮/⏭ button to use preset station seek will receive channel 1.

- Manual Tuning
  Press the ⏭ button to increase the frequency by one step.
  Press the ⏮ button to decrease the frequency by one step.

NOTE

The ST indicator lights up when stereo broadcasts are being received.

Local Seek Function

With the local seek function turned on, auto seek tuning skips stations with relatively poor reception.

Turning Local Seek Function On/Off:

1 Hold down the MENU button for one second or more.
"MENU" is displayed and the menu mode is turned on.

2 Press the ⏭ button repeatedly until the local seek function appears in the display.
Press the ⏮ button to search in the other direction.
The function setting is indicated by "LO.S ON" or "LO.S OFF" in the display, indicating that the local seek function is on or off, respectively.

3 ***Switching settings***
Press either the AM button or FM button.
The display and setting will change.
When local seek function is on, the LO.S indicator is turned on.

4 Press the MENU button to end the menu mode.

Monaural Reception

When poor stereo reception is experienced, this function will reduce noise and improve listening conditions.

1 Hold down the MENU button for one second or more.
"MENU" is displayed and the menu mode is turned on.

2 Press the ⏭ button repeatedly until the monaural reception function appears in the display.
Press the ⏮ button to search in the other direction.
The function setting is indicated by "MONO ON" or "MONO OFF" in the display, indicating that monaural reception is on or off, respectively.

3 ***Switching settings***
Press either the AM button or FM button.
The display and setting will change.
When monaural reception is on, the MONO indicator turns on.

4 Press the MENU button to end the menu mode.

Station Preset Memory

Store the frequency of the station currently being listened to. You can then recall that station with a single touch of a button.

1 Select the band/ station that you want to have stored.

2 Hold down the button (#1-6) that you want to use for the station, for two seconds or more.
The button number blinks once in the display to indicate that the data has been stored.

Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station.
The number of the recalled station is displayed.

NOTE

You can store 6 stations in each of the FM1, FM2, FM3, and AM (MW and LW) bands.

Auto Memory Entry

You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to 6 frequencies can be stored this way.

1 Select the band for auto memory entry.

2 Hold down the MENU button for one second or more.
"MENU" is displayed and the menu mode is turned on.

3 Press the ►►I button repeatedly until "A-MEMORY" appears in the display.
Press the I◄◄ button to search in the other direction.

4 Hold down either the AM button or FM button for two seconds or more to start auto memory function.
The numbers of the preset station buttons showed in order. When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

NOTE

- When the local seek function is turned whilst auto memory entry takes place, stations with poor reception are not stored.
- When the Traffic Information function is on , only the local traffic information station frequency will be stored.

Cancelling Auto Memory Entry During Its Operation:

Press the MENU button whilst auto memory entry is taking place to stop the process.

Traffic Information Function

You can listen to traffic information. If you are listening to tapes or discs, they will continue playing until a traffic bulletin is broadcast.

Turning TI function On/Off:

Press the TI button to turn the function on and off.
When the function is on, the TI indicator is turned on.
When a traffic information station is being received, the TP indicator will turn on. When none is being received, the indicator will blink on and off.
When a traffic bulletin begins to be broadcast, the TA indicator will turn on, and reception will begin at the preset volume.
If you are listening to a tape or disc when a traffic bulletin begins, they will automatically be turned off. When the bulletin ends or poor reception is experienced, the tape or disc will begin playing again.

NOTE

Pressing the TI button whilst in the MW/LW band automatically switches reception to the FM band. However, the MW/LW band is not returned to when the TI button is pressed again.

Switching to a Different Traffic Information Station:

Use the I◄◄ / ►►I buttons to make an auto seek of the TI stations in a certain band.

NOTE

- When you are listening to a tape or disc, you cannot change to another TI station.
- When the auto TP seek function is turned on and reception starts to weaken, the tuner automatically seeks stations with better reception.

English

Tuner features *(See page 6)*

Presetting Volume for Traffic Information

Preset the volume to be used when traffic information starts to be broadcast.

1 Tune into the station for which you want to set the volume.

2 Adjust the volume to the desired level.

3 Hold down the VOL ADJ button for two seconds or more.
The volume level blinks once in the display to indicate that the data has been stored.
Future traffic information broadcasts are heard at the preset level.

NOTE

- The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.
- You can arrange only to listen to traffic information bulletins with at preset volume with the volume set at minimum.

Auto TP Seek Function

When the TI function is on and poor reception conditions are experienced when listening to a traffic information station, another traffic information station with better reception will be searched for automatically. This function is on, when unit is first powered on.

Turning Auto TP Seek Function On/Off:

1 Hold down the MENU button for one second or more.
"MENU" is displayed and the menu mode is turned on.

2 Press the ►►I button repeatedly until the Auto TP Seek function appears in the display.
Press the I◄◄ button to search in the other direction.
The function setting is indicated by "ATPS ON" or "ATPS OFF" in the display, indicating that the function is on or off, respectively.

3 ***Switching settings***
Press either the AM button or FM button.
The display and setting will change.
If the traffic information station you are tuned to experiences poor reception, this function automatically seeks another TP station after about 30 seconds.

4 Press the MENU button to end the menu mode.

CD player features (See page 7)

Playing CDs

Playing CDs:

If no CDs are inserted, insert one in the slot with the label facing up. (If a CD is already inserted, press the CD button).
The CD-IN indicator lights up when a CD has been inserted.
The ► indicator lights up when a CD is being played.

Pausing and Restarting CD Play:

Press the ►II button to make the disc pause.
The II indicator lights up.
Press the same button again to start play again.

Stopping and Ejecting CDs:

Hold down the EJECT button for one second or more.
The CD stops playing and ejects from the slot.

▲CAUTION

- Do not attempt to insert a CD into the slot if another one is already there.
- The unit can only play 12-cm (5-inch) CDs. If you insert an 8-cm (3-inch) CD, it will get stuck inside and can cause the unit to malfunction.

NOTE

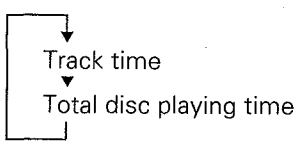
When you load a CD and eject it right away, the next time you try to insert the CD may not load. In such a situation, take the CD out for a moment and then reinsert it.

Switching Display for CDs

Switch the display that appears whilst discs are playing.

Switching Display for CDs:

Each time you press button DISP, the display during CD play switches as follows.



Fast Forwarding and Reversing Disc Play

Fast Forwarding Disc Play:

Hold down on the ►►I button.
Release your finger to play the disc at that point.

Reversing Disc Play:

Hold down on the I◄◄ button.
Release your finger to play the disc at the point.

Track Search

Search forwards or backwards through the tracks on the disc until you reach the one that you want to listen to.

Making a Reverse Track Search:

Press the I◄◄ button to display the desired track number.
Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.
Play starts at the beginning of the displayed track number.

Making a Forward Track Search:

Press the ►►I button to display the desired track number.
Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

Track Repeat Function

Repeat playing the current track.

Turning Repeat Play Function On/Off:

Press the REP button to switch the repeat play function on and off.
The REP indicator lights up when the repeat play function is turned on.
The track number currently being heard blinks in the display.

NOTE

The repeat play function is cancelled when you stop playing the disc.

English

CD player features (See page 7)

Track Scan Function

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

Turning Track Scan Function On/Off:

Press the SCN button to switch the track scan function on and off.
The SCN indicator lights up when the track scan function is turned on.
The first 10 seconds of each track are played, and the tracks are played in order.
The track number currently being heard blinks in the display.

Stopping to Listen to the Track Being Scanned:

Press the CD or SCN button again to stop the scan and keep on listening to a track normally.

NOTE

- The track scan function is cancelled when you stop playing a disc.
- The track scan function only scans each track on a disc once.

Random Play Function

Play all the tracks on the current disc in random order.

1 Press the RDM button to switch the random play function on and off.
The RDM indicator lights up when the random play function is turned on.
The display of the track number changes continuously as the next track is being selected.
When the track has been selected, play starts.
The selected track number blinks in the display as it is being played.

2 To change the track being heard, press the ►►I button.
Another track is selected and played.

NOTE

The random play function is cancelled when you stop playing a disc.

Other features (See page 7)

Audio Control Setting

Adjust various parameters of sound quality.

1 Press the AUD button to enter the control mode.
Each time the AUD button is pressed, the adjustment mode display changes as follows:
► Bass ► Treble ► Balance ► Fader ► Volume ┐
└──┘
If you do not move to step 2 in 5 seconds, the unit will switch back to the volume adjustment mode (i.e., the normal mode).

NOTE Source tone memory

Each source (CD, FM and AM) has its own memory in which to store the bass and treble tone settings.
The settings made for a particular source are then recalled automatically whenever you use that source (e.g., FM mode uses the tone settings made for FM, AM for AM, etc.).

2 Press the ∨/∧ buttons to adjust the mode shown in the display.
Use the following table as a guide for adjusting the settings in each mode.

Adjustment mode (Display)	Operation of Audio control button	
	∨ button	∧ button
Bass ("BAS")	Bass decreased.	Bass increased.
Treble ("TRE")	Treble decreased.	Treble increased.
Balance ("BAL")	Left channel emphasized.	Right channel emphasized.
Fader ("FAD")	Rear channel increased.	Front channel increased.

Clock Display

Display the time.

Switching to Time Display:

Press the CLK button repeatedly until the clock is displayed.

Adjusting Time

When the RDS station tuned into is transmitting a time signal, have the unit's built-in time adjust automatically to the correct local time.

Adjusting the Time:

Tune into an RDS station for 3 or 4 minutes.
The time adjusts automatically to the correct local time.

NOTE

- The displayed time cannot be set manually, but only through RDS station time signals.
- The time is not adjusted when the RDS station you are tuned to is not transmitting a time signal. Choose another RDS station in such a case.

DSI (Disabled System Indicator)

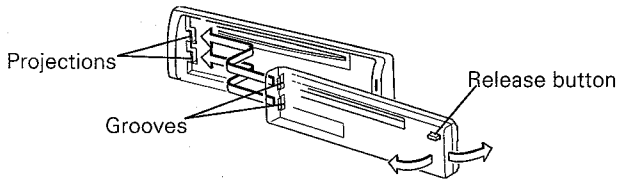
A red indicator blinks on the unit after the faceplate is removed, warning potential thieves. The factory default for this function is "ON".

Turning Disabled System Indicator On/Off:

1. Hold down the MENU button for one second or more.
   "MENU" is displayed and the menu mode is turned on.
2. Press the ►►I button repeatedly until the Disabled System Indicator function appears in the display.
   Press the I◄◄ button to search in the other direction..
   The function setting is indicated by "DSI ON" or "DSI OFF" in the display, indicating that the disable system indicator is on or off, respectively.
3. ***Switching settings***
   Press either the AM button or FM button.
   The display and setting will change.
4. Press the MENU button to end the menu mode.

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

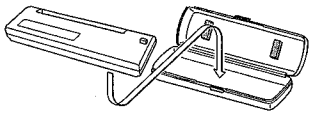


Removing Faceplate:

Press the release button.
The faceplate is unlocked, allowing you to detach it.

NOTE

- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case whilst detached.



- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

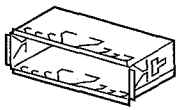
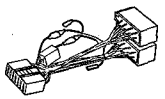
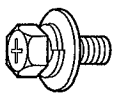
Reattaching Faceplate:

1. Align the projections on the unit with the grooves on the faceplate.
2. Push the faceplate in until it clicks.
   The faceplate is locked in place, allowing you to use the unit.

English

English

Accessories

	External view	Number of items
①		1
②		1
③		2
④		1
⑤		1

▲CAUTION

The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

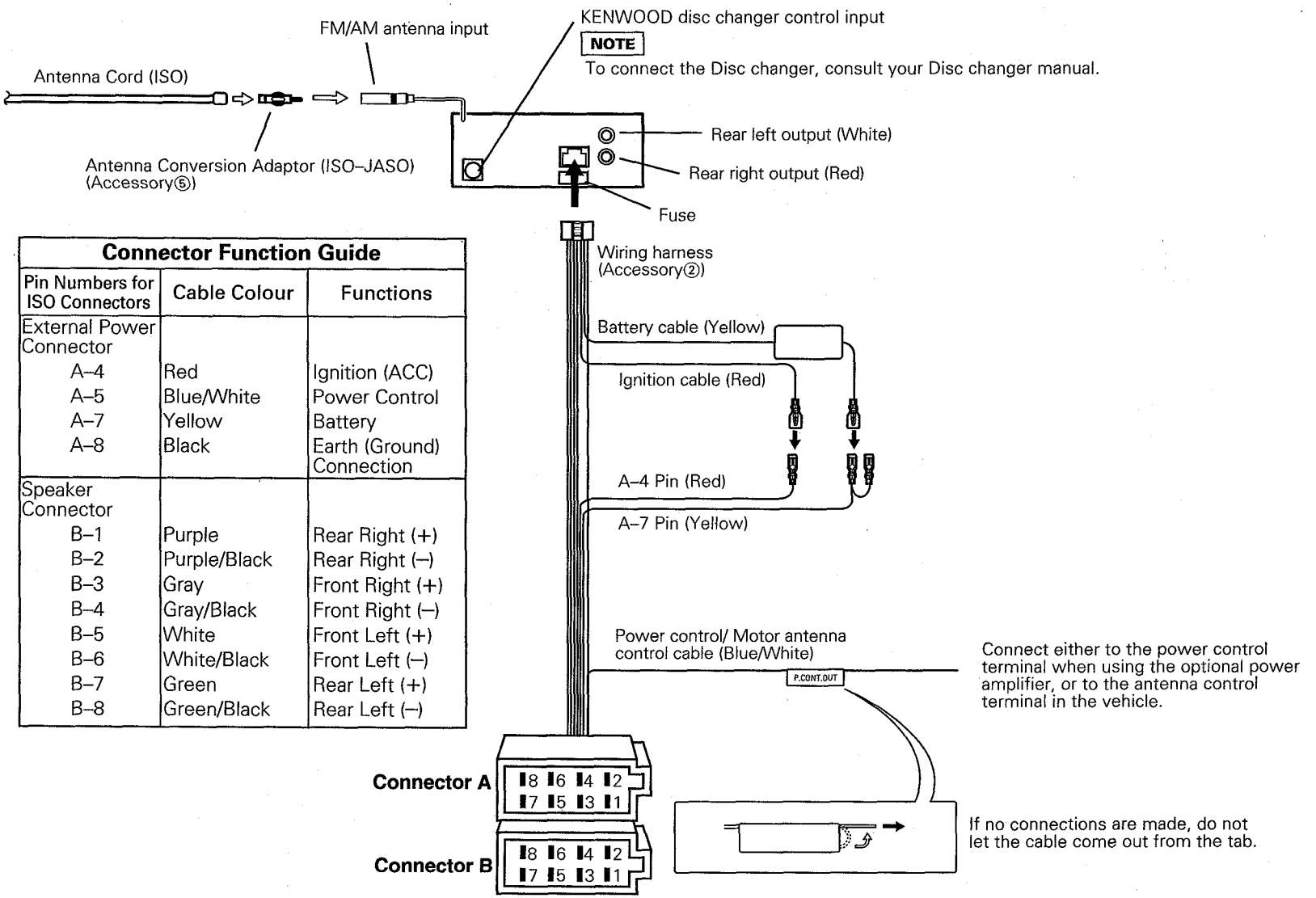
Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the ⊖terminal of the battery.
2. Make the proper input and output cable connections for each unit.
3. Connect the cable on the wiring harness.
4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
6. Connect the wiring harness connector to the unit.
7. Install the unit in your car.
8. Reconnect the ⊖ terminal of the battery.
9. Press the reset button.

▲CAUTION

- If your car is not prepared for this special connection-system, consult your KENWOOD dealer.
- Only use antenna conversion adapters (ISO-JASO) when the antenna cord has an ISO plug.
- Make sure that all cable connections are securely made by inserting jacks until they lock completely.
- If your vehicle's ignition does not have an ACC position, or if the ignition cable is connected to a power source with constant voltage such as a battery cable, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition cable to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected cables or terminals touch metal on the car or anything else conducting electricity. To prevent short circuits, also do not remove the caps on the ends of the unconnected cables or the terminals.
- Connect the speaker cables correctly to the terminals to which they correspond. The unit may receive damage or fail to work if you share the ⊖ cables and/or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, indicators, wipers, etc. on the car are working properly.
- Insulate unconnected cables with vinyl tape or other similar material.

Connecting Cables to Terminals


FM/AM antenna input
KENWOOD disc changer control input
NOTE
To connect the Disc changer, consult your Disc changer manual.
Antenna Cord (ISO)
Antenna Conversion Adaptor (ISO–JASO)
(Accessory⑤)
Rear left output (White)
Rear right output (Red)
Fuse
Wiring harness
(Accessory②)
Battery cable (Yellow)
Ignition cable (Red)
A–4 Pin (Red)
A–7 Pin (Yellow)
Power control/ Motor antenna
control cable (Blue/White)
P.CONT.OUT
Connect either to the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.
Connector A
8 6 4 2
7 5 3 1
Connector B
8 6 4 2
7 5 3 1
If no connections are made, do not let the cable come out from the tab.

Connector Function Guide

Pin Numbers for ISO Connectors	Cable Colour	Functions
External Power Connector		
A–4	Red	Ignition (ACC)
A–5	Blue/White	Power Control
A–7	Yellow	Battery
A–8	Black	Earth (Ground) Connection
Speaker Connector		
B–1	Purple	Rear Right (+)
B–2	Purple/Black	Rear Right (–)
B–3	Gray	Front Right (+)
B–4	Gray/Black	Front Right (–)
B–5	White	Front Left (+)
B–6	White/Black	Front Left (–)
B–7	Green	Rear Left (+)
B–8	Green/Black	Rear Left (–)

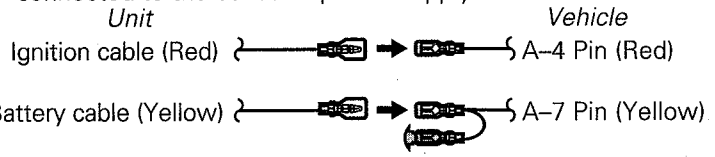
English

Connecting Cables to Terminals

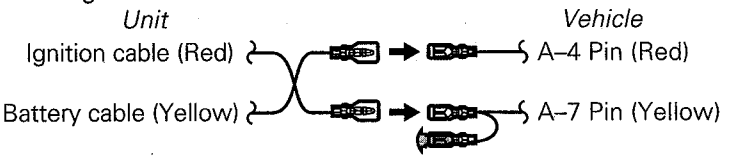
⚠WARNING Connecting the ISO Connector (see p.17)

The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit.
The default connection for the wiring harness is described in [1] below. If the ISO connector pins are set as described in [2] or [3], make the connection as illustrated.

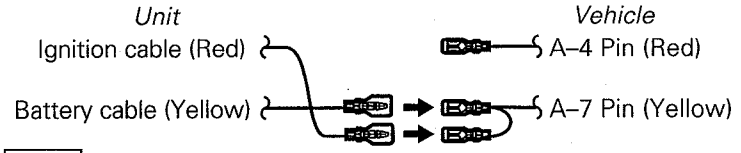
[1] (Default setting) The A-4 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A-7 pin (yellow) is connected to the constant power supply.



[2] The A-4 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-7 pin (yellow) is linked to the ignition.



[3] The A-4 pin (red) of the vehicle's ISO connector is not connected to anything, while the A-7 pin (yellow) is connected to the constant power supply (or both the A-4 (red) and A-7 (yellow) pins are connected to the constant power supply).

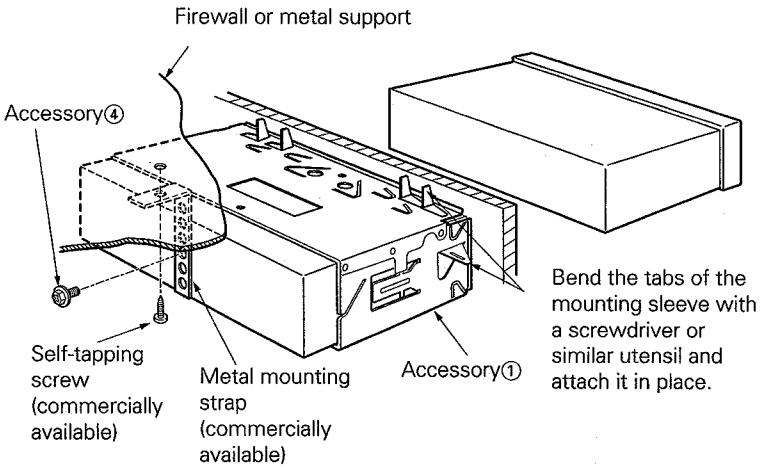


NOTE

When the connection is made as in [3] above, the unit's power will not be linked to the ignition key. For that reason, always make sure to turn off the unit's power when the ignition is turned off.
To link the unit's power to the ignition, connect the ignition cable (ACC...red) to a power source that can be turned on and off with the ignition key.

Installation

■ *Installation*

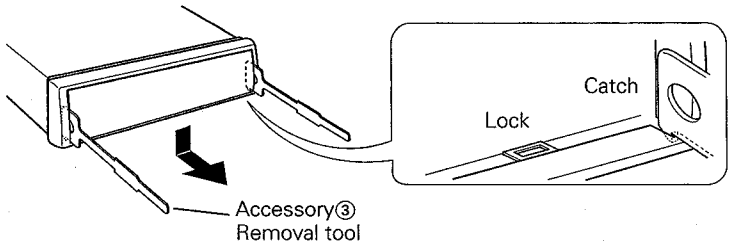

Firewall or metal support
Accessory④
Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.
Self-tapping screw (commercially available)
Metal mounting strap (commercially available)
Accessory①

NOTE

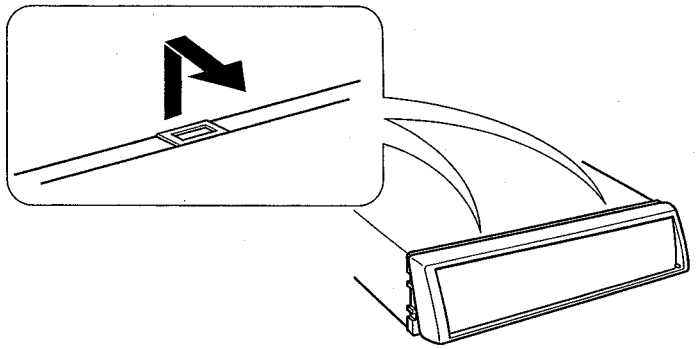
Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

■ *Removing the hard rubber frame*

1 Engage the catch pins on the removal tool and remove the two locks on the lower level.
Lower the frame and pull it forward as shown in the figure.



2 When the lower level is removed, remove the upper two locations.



NOTE

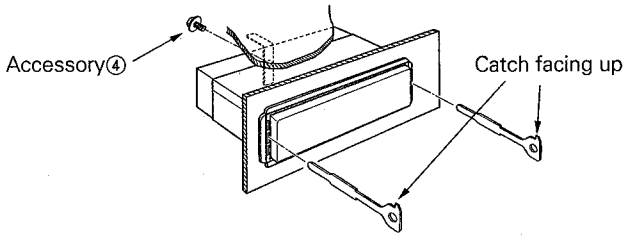
The frame can be removed from the top side in the same manner.

■ *Removing the Unit*

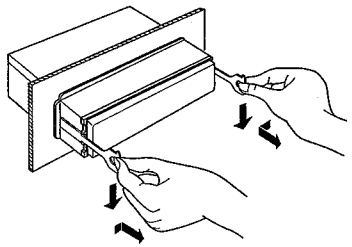
1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.

2 Remove the Hex-head screw with integral washer (M4×8) on the back panel.

3 Insert the two removal tools deeply into the slots on each side, as shown.



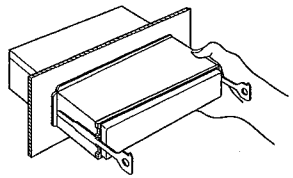
4 Lower the removal tool toward the bottom, and pull out the unit halfway whilst pressing towards the inside.



⚠CAUTION

Be careful to avoid injury from the catch pins on the removal tool.

5 Pull the unit all the way out with your hands, being careful not to drop it.



English

Troubleshooting Guide

What might appear to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the cables, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same cable to the ignition as the battery cable.
No sound can be heard, or the volume is low.	The Attenuator function is turned on.	Turn off the Attenuator function.
	The fader and/or balance settings are set all the way to one side.	Reset the fader and/or balance settings.
	The input/output cables or wiring harness are connected incorrectly.	Reconnect the input/output cables and/or the wiring harness correctly. See the section on "Connecting Cables to Terminals".
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see page 4).
The sound quality is poor or distorted.	A speaker cable may be pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker cables so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended.	Pull out the antenna all the way.
	The antenna control cable is not connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The memory is erased when the ignition is turned off.	The battery cable has not been connected to the proper terminal.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
	The ignition and battery cable are incorrectly connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
A CD ejects as soon as it is loaded.	The CD is upside-down.	Load the CD with the labelled side up.
	The CD is quite dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see page 5).
The sound skips on a CD.	The CD is scratched or dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see page 5).
The specified track does not play.	Random play has been selected.	Turn off the random play function.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (50 kHz Space) .....87.5 MHz – 108.0 MHz
Usable sensitivity (S/N=26dB) .....0.7 µV/75 Ω
Quieting Sensitivity (S/N=46dB).....1.6 µV/75 Ω
Frequency response (±3.0 dB) .....30 Hz – 15 kHz
Signal to Noise ratio (MONO) .....68 dB
Selectivity (DIN) (400kHz).....≥ 80 dB
Stereo separation (1 kHz) .....35 dB

MW tuner section

Frequency range (9kHz Space) .....531 kHz – 1611 kHz
Usable sensitivity (S/N=20dB) .....30 µV

LW tuner section

Frequency range .....153 kHz – 281 kHz
Usable sensitivity (S/N=20dB) .....45 µV

CD player section

Laser diode .....GaAlAs (λ=780 nm)
Digital filter (D/A) .....8 Times Over Sampling
D/A Converter .....1 Bit
Spindle speed .....500 – 200 rpm (CLV)
Wow & Flutter .....Below Measurable Limit
Frequency response (±1 dB).....10 Hz – 20 kHz
Total harmonic distortion (1 kHz).....0.01 %
Signal to Noise ratio .....93 dB
Dynamic range .....93 dB
Channel separation .....85 dB

Audio section

Maximum output power.....30 W × 4
Output power (DIN 45324, +B=14.4V)
.....20 W × 4
Tone action
Bass: .....100 Hz ±10 dB
Treble: .....10 kHz ±10 dB
Preout level / Load .....1800 mV/10 kΩ
Preout impedance .....≤ 600 Ω

General

Operating voltage .....14.4 V (11 – 16 V allowable)
Current consumption .....10.0 A at Rated power
Installation size (W × H × D).....182 × 53 × 160 mm
Weight .....1.4 kg

English